

Military/Civilian Transportation Safety Workshop



**A MISHAP-FREE
NAVY+MARINE CORPS
*Team***

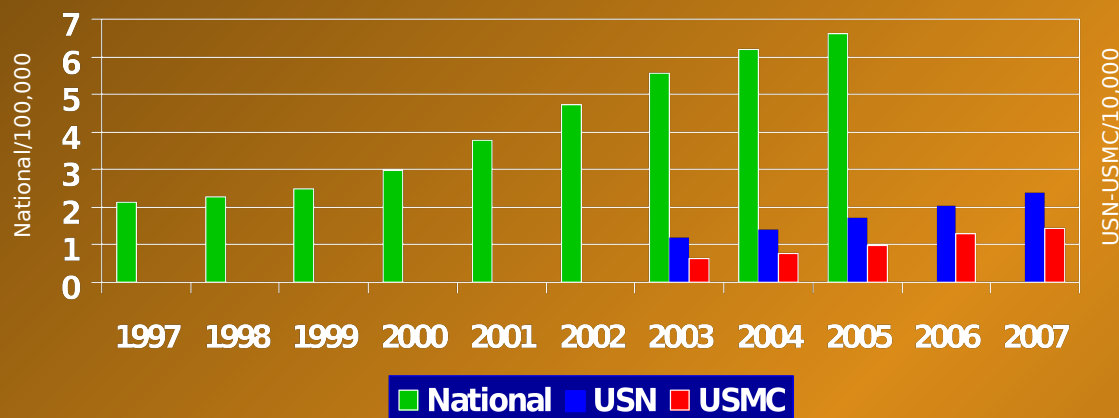


www.safetycenter.navy.mil

Don Borkoski **TRAFFIC SAFETY SPECIALIST**

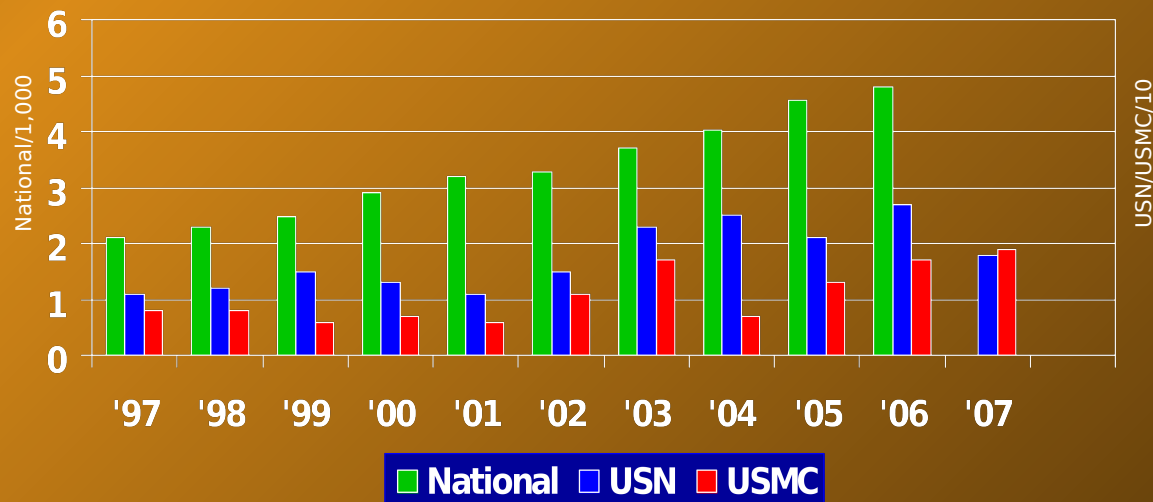
National/USN/USMC Motorcycle Data

National/ USN/ USMC
Current Motorcycle Registrations



- National M/C registrations tripled since 1998
- USN M/C registrations doubled in 5 years.
- USMC M/C registrations increased 2.5 times.
- Sport Bike registrations increased 83% from 00-05

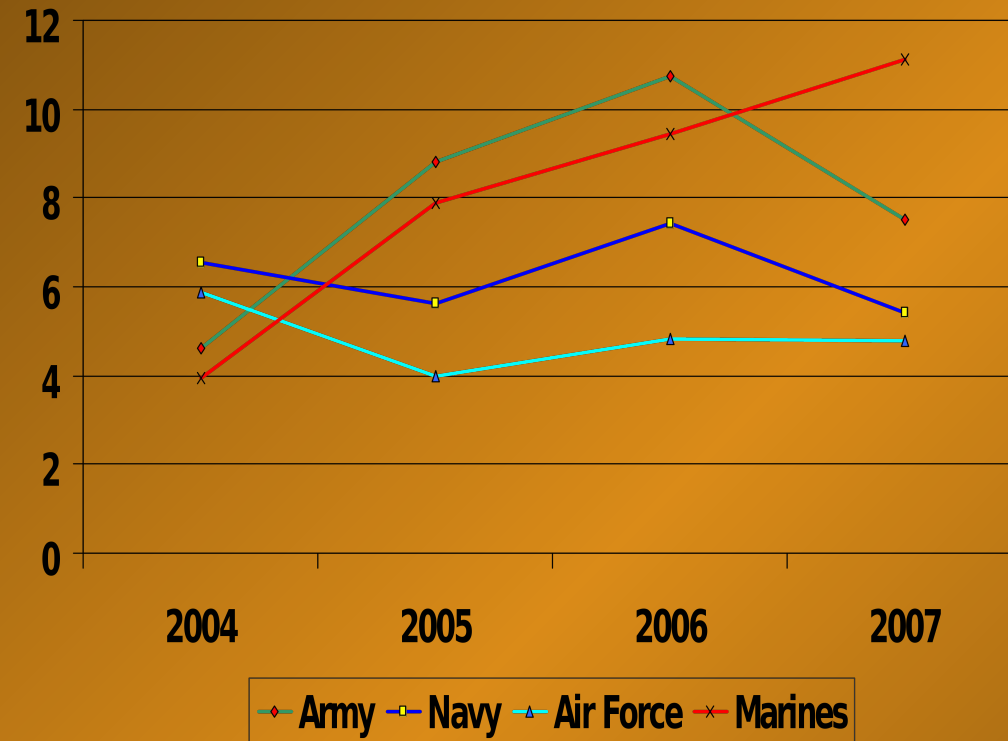
National/ USN/ USMC
Motorcycle Fatalities



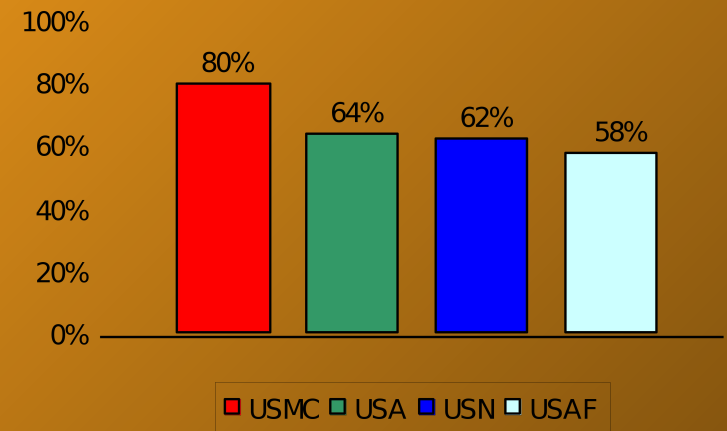
- National fatalities doubled since 1997
- USN/USMC fatalities have generally followed the national trend

DoD Motorcycle Service Comparisons

DoD Motorcycle Class A Rates



Personnel Under Age 30

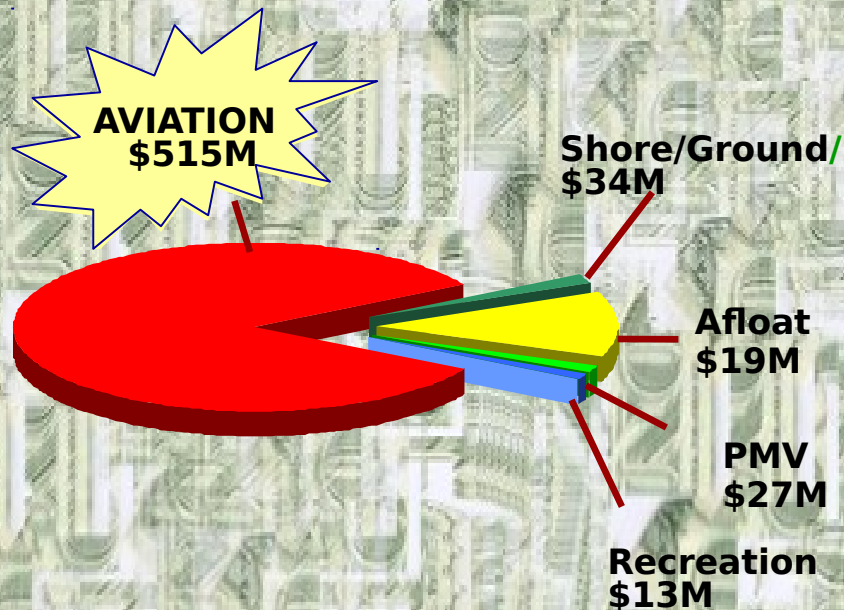


Increased Training has
had an impact on the
Fatality Rate!

FY06 Total Cost and Deaths

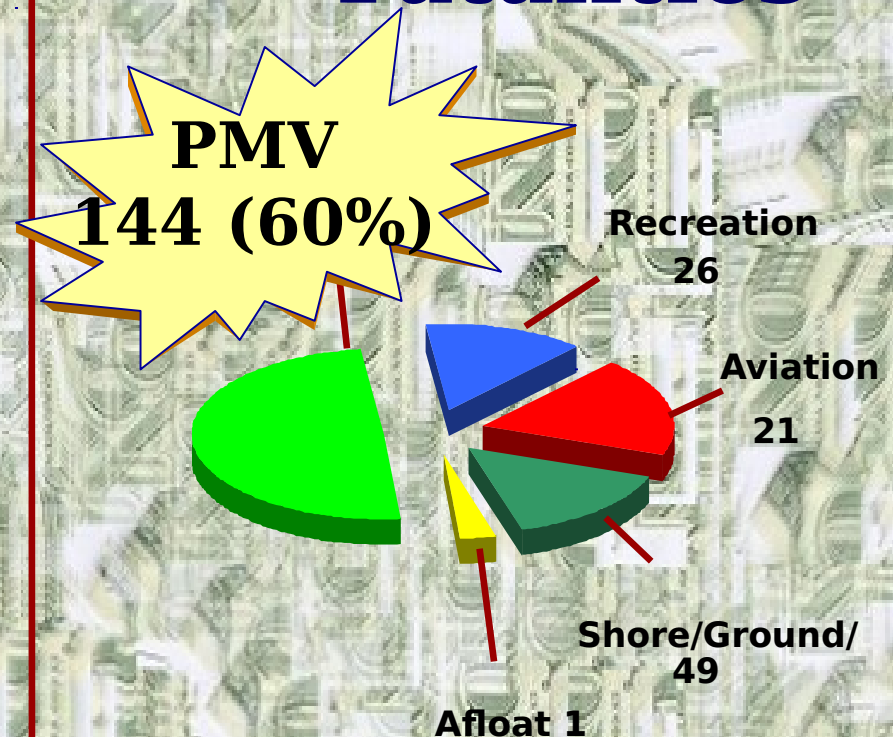
Navy and Marine Corps

Cost



Total Cost: \$607M

Fatalities



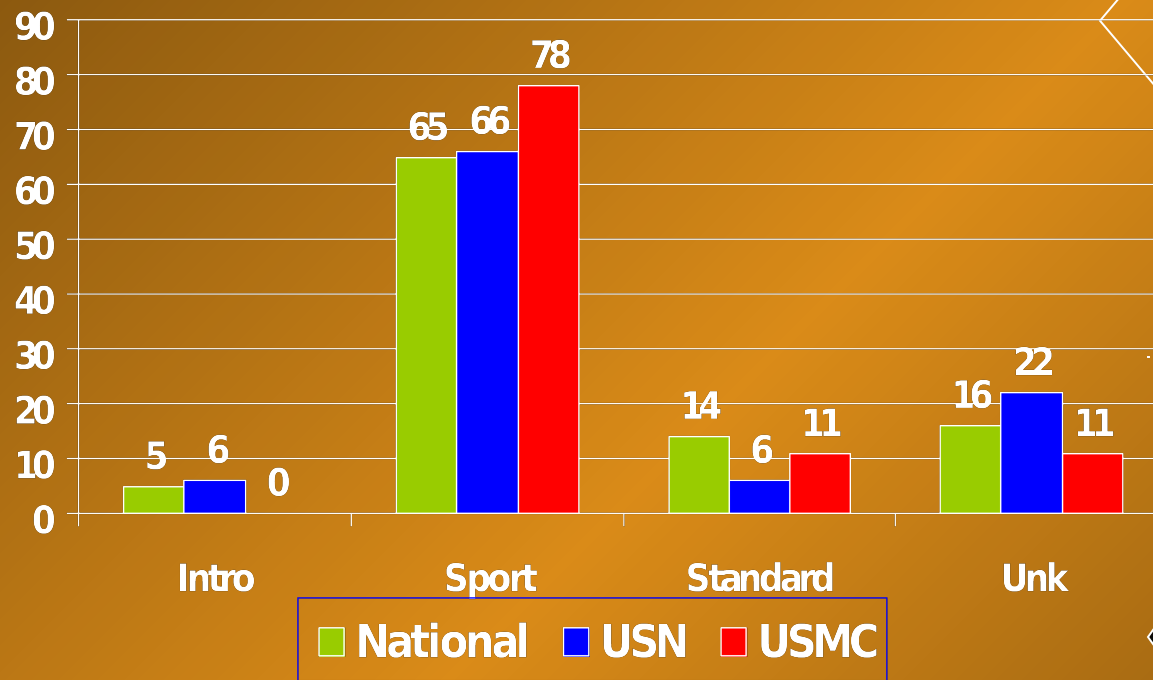
Total Fatalities: 241

FY 2006

National/USN/USMC Motorcycle Data

National(CY05)/USN(FY07)/USMC(FY07)

Fatalities by Type Motorcycle



- **Sport bikes dominate the number of fatalities** Nationally and in DoN

- In 2005 Sport Bikes accounted for 38% of US Vehicle Fatalities.

- **Sport bike riders are primarily in the 19-30 year age bracket.**

- National increase of Standard rider mishaps matches older



Values are percentage of Fatalities

DON Way Ahead

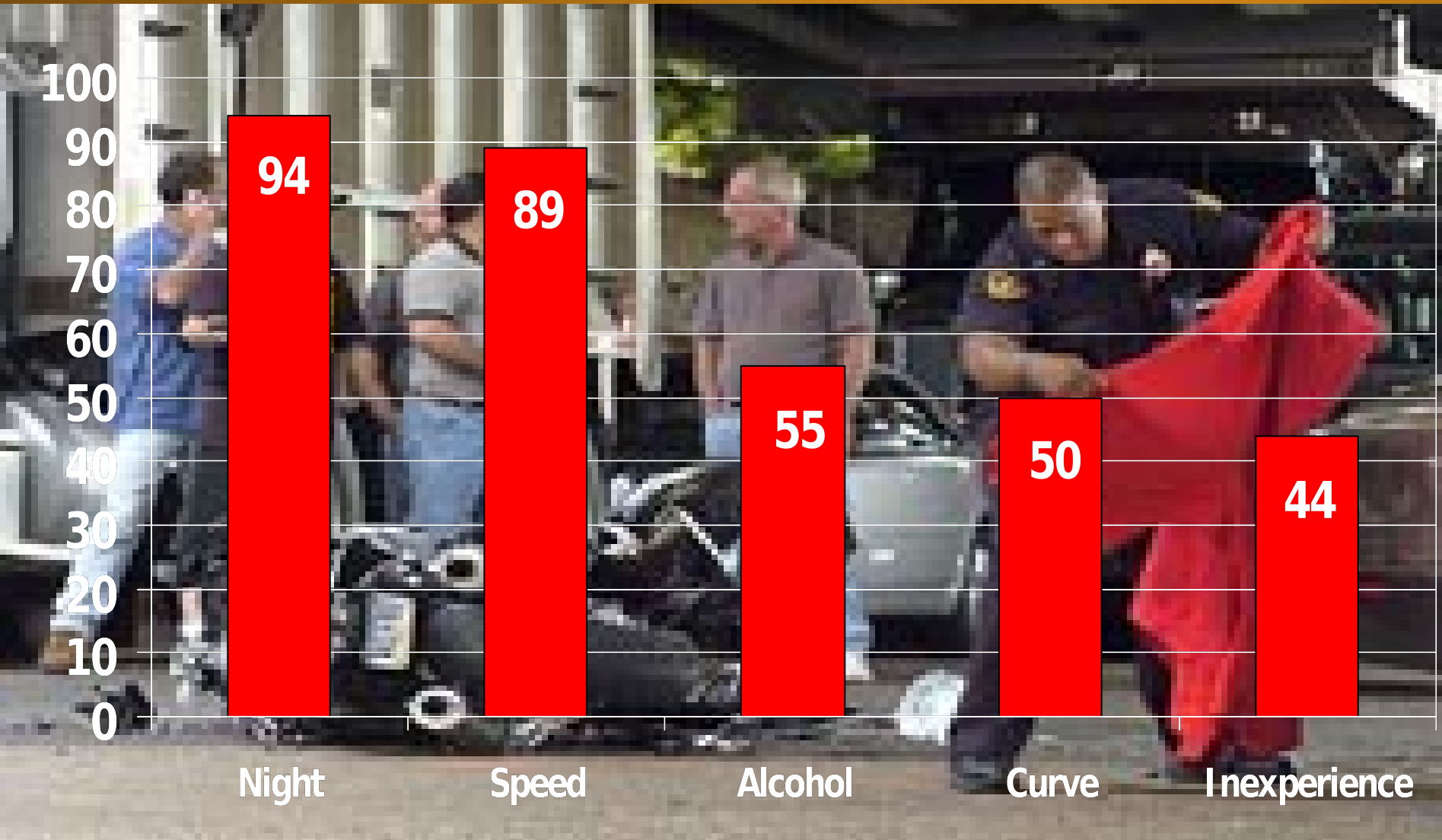
- ✓ Change OPNAVINST 5100.12G and MCO 5100.19E to require:
 - ✓ Service-Wide Solution
 - ✓ Training continuum
 - ✓ Sports Bike Training
 - ✓ PPE Standards
- ✓ NSC, CMC-SD and Fleet Representatives Research to Determine Best Solution for Service-wide Motorcycle Training
 - ✓ Outsourcing
 - ✓ Trainer Bikes
 - ✓ Course curriculum
 - ✓ Course Material
- ✓ Mentorship Programs
- ✓ Emphasize Command & Personal Accountability

Knowing what happened is

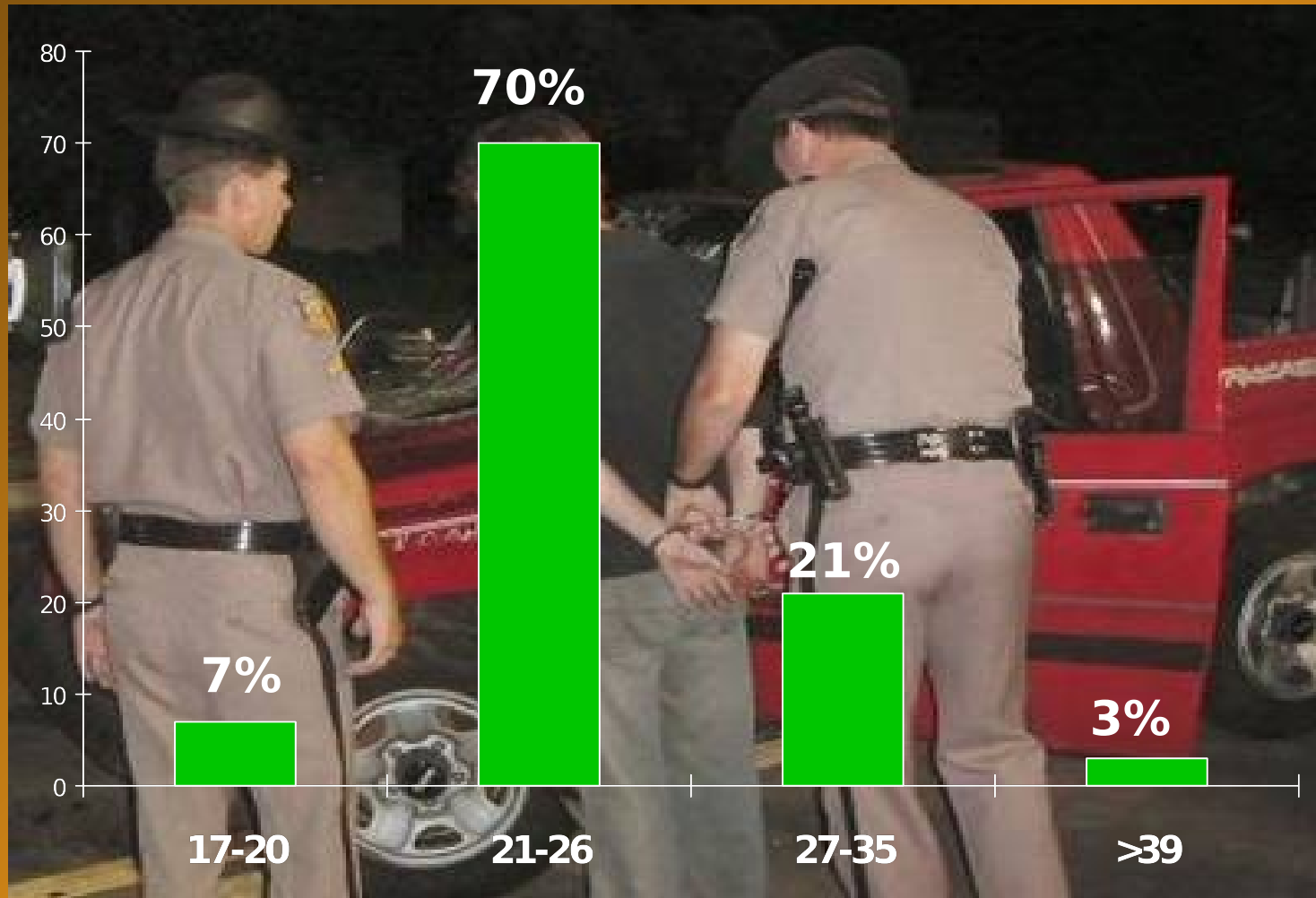
1. **vital** constituted an investigation process for all Fatal crashes.
2. Non-fatal crash victims are being investigated for "line of duty" status
3. Autopsies are being reviewed for all major Mishaps
4. WESS has been expanded to collect almost 1000 data points from a crash
5. Preliminary Loss Reports are distributed within a week of a crash



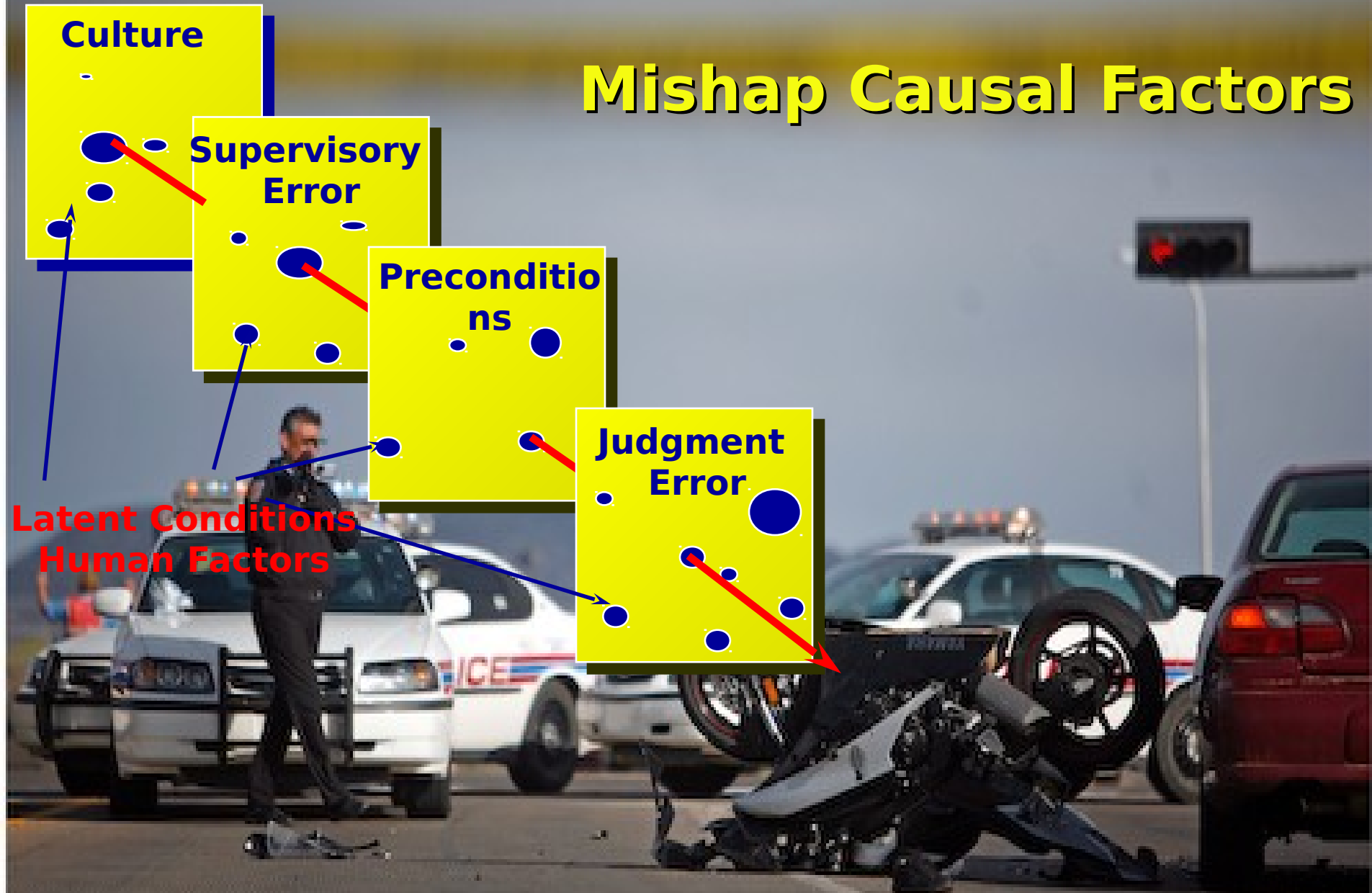
Fatal Factors in Motorcycle Deaths



NAVY/MARINE DUI % by age



Mishap Causal Factors



Reason's "Swiss Cheese" Model



5

Steps

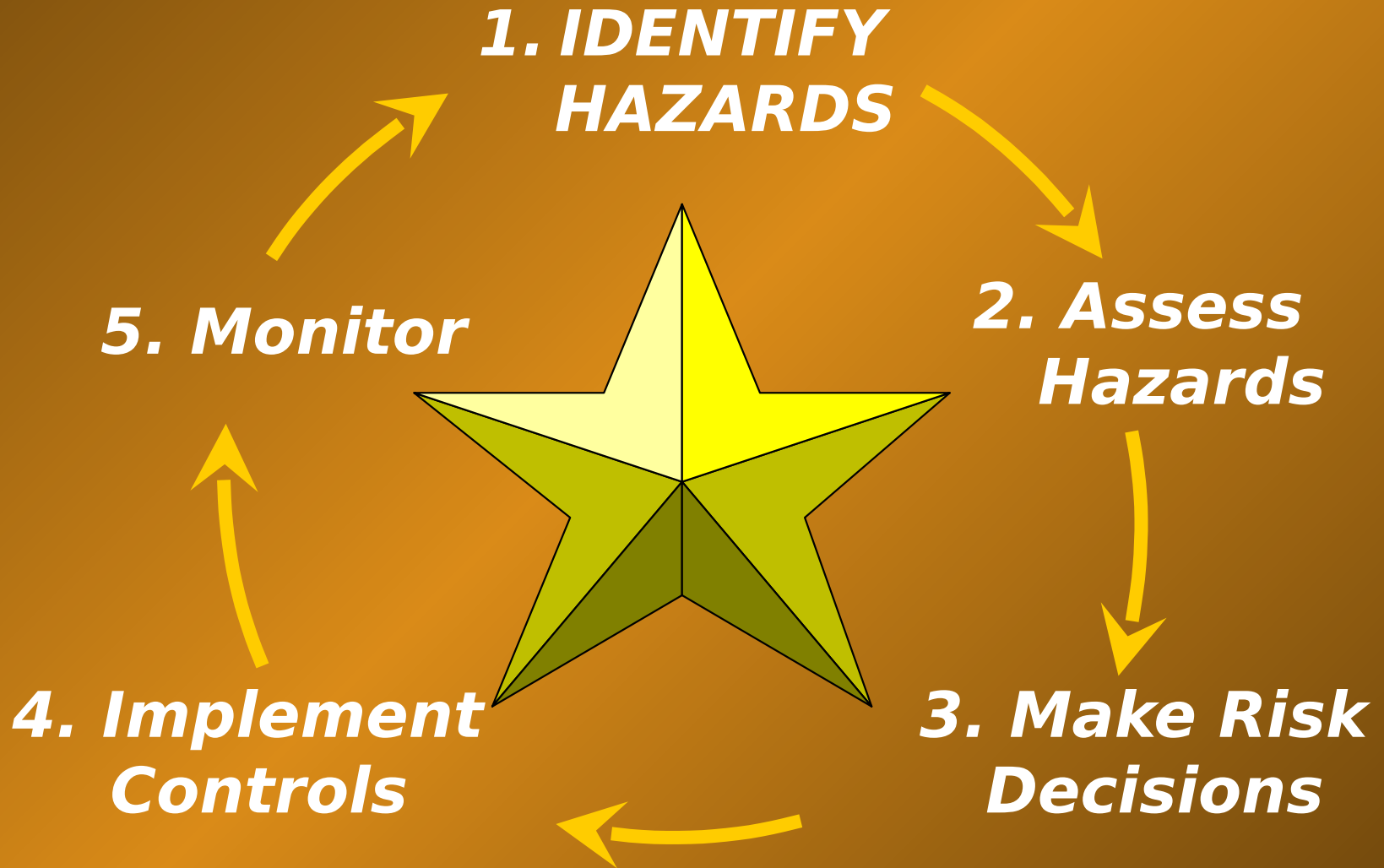
4

Rules

3

Levels

5 STEPS OF ORM



4 RULES of ORM

- 1. Accept risks when benefits outweigh costs.***
- 2. Accept no unnecessary risk.***
- 3. Anticipate and manage risk by planning.***
- 4. Make risk decisions at the right level***

3 LEVELS of ORM

TIME CRITICAL (Reaction)

- *Decision under duress. Little time for a decision.*

“on the run”, “snap decision” “adjusting to identified hazard”

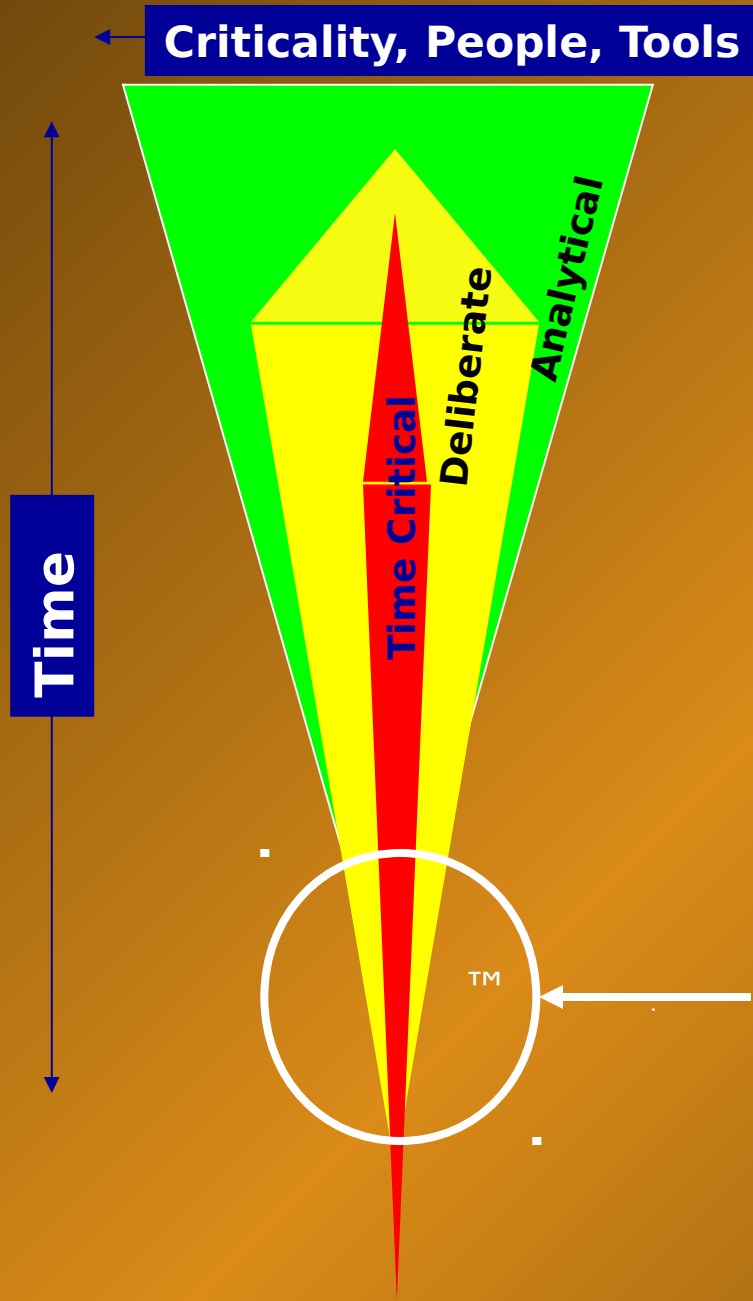
DELIBERATE (Action)

- *Everyday decision making. “decisions to avoid anticipated problems”, “planning ahead to reduce probability of risk”*

IN DEPTH (Anticipate)

- *Long term planning. Agreed upon decisions based on recurring situations. Usually written or enforce policy.*

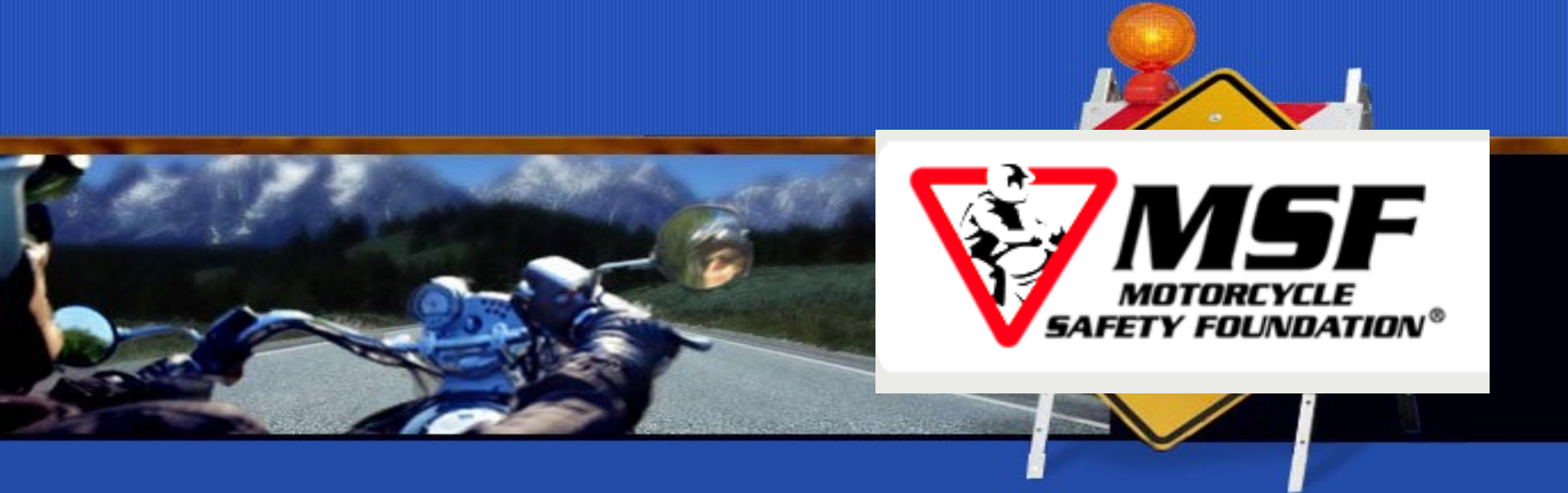
Decision Making Styles



Decisions will be impacted by:

- Available time
- Criticality of the decision
- Number of people involved
- Available tools & sources of information
- Decision making bias

Execution Phase (*operating environment*)



MSF provides the curriculum for DOD training including:

- Basic Rider Course (BRC)
- Experienced Rider Course (ERC)
- Group Riding Suit

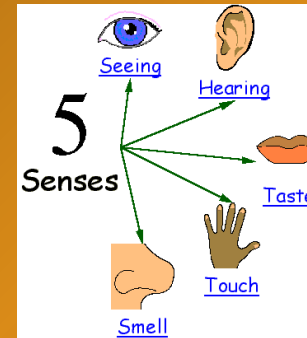
New ventures include:

- ERC II – sport bike specific training focused on Stopping, Cornering and Risk Management
- SERC (Skill Enhancement Rider Course)- Advanced skills and Traction Demonstrations

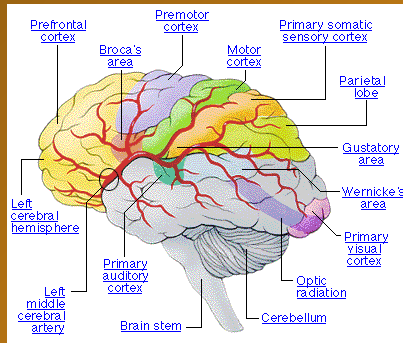
MSF's Risk Mitigation Round

SEE

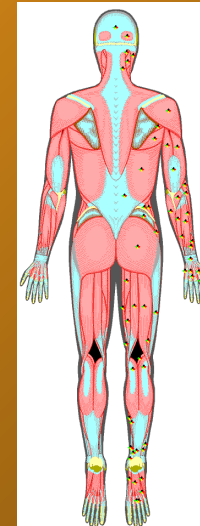
- Search



- Evaluate



- Execute



Naval Safety Center Web Site

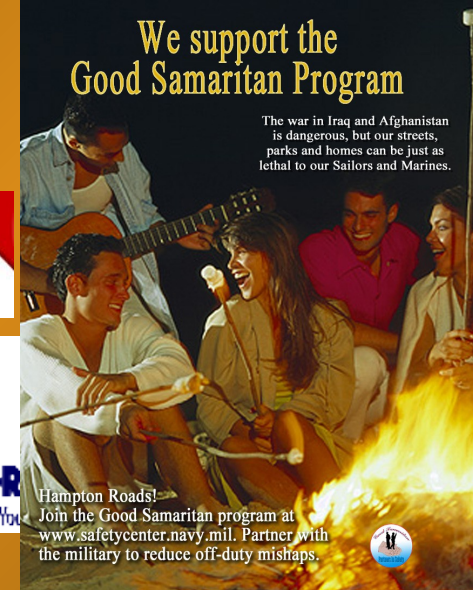
http://www.safetycenter.navy.mil

- 1 million hits per month
- Worldwide access
- Single source for Navy Safety materials
- 2nd most viewed Navy Web site
- Hundreds of Links



Community Involvement

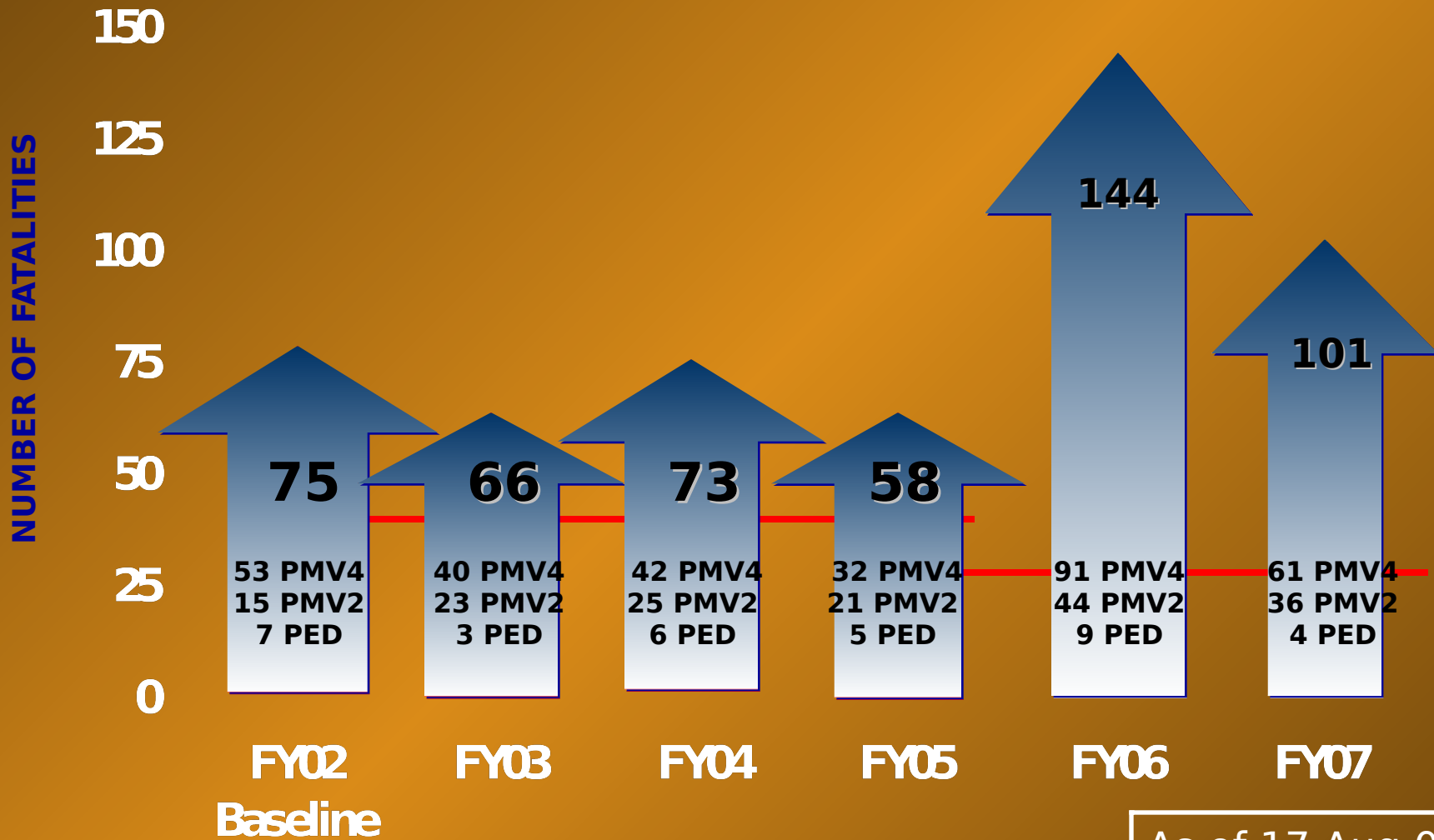
- Scheduled conferences with local Motor vehicle safety organizations, Law enforcement, Safety managers
 - Click-it or Ticket
 - Arrive Alive
 - Drive for Life
 - Mid-Atlantic Partnership Campaign
 - NHTSA Drive safe holiday campaigns
 - MADD-Mother Against Drunk Driving
 - Critical Days of Summer



Future PMV Initiatives:

- Driver History Profile Initiative
- Motorcycle Skill-Enhanced Rider Course
- Driver training continuum
- Trainer Motorcycles
- Navy-wide Mentorship program
- Revitalized Personal Risk Management
- DBAT: Driver Behavior Assessment Tool
- TRiPS: Traffic Related Personnel Safety

NAVY/MARINE MOTOR VEHICLE FATALITIES



As of 17 Aug 07 NSC

Questions?



Thank You

Keep the Rubber Down !

20 11:17 AM

The End.....

